1. Plot of the entire dataset

Graphical user interface

Description automatically generated

1. Results for each model estimation
   1. Model 1: Linear Trend

Plot of Model 1

Chart, line chart

Description automatically generated

Model 1 Performance

Text

Description automatically generated

Text, letter

Description automatically generated

* 1. Model 2: Seasonality

Plot of Model 2

Graphical user interface

Description automatically generated

Model 2 Performance

Text, letter

Description automatically generatedTable

Description automatically generated

* 1. Model 3: Linear Trend and Seasonality

Plot of Model 3

Graphical user interface

Description automatically generated

Model 3 Performance

Table

Description automatically generated



* 1. Model 4: Simple Exponential Smoothing

Plot of Model 4 with Optimal Alpha

Chart

Description automatically generated

Optimal Alpha for Model 4

Graphical user interface, application, table

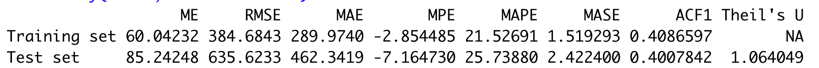
Description automatically generated

Plot of MAPE vs. Alpha

Chart, line chart

Description automatically generated

Model Accuracy with the Optimal Alpha



1. Best forecasting model

Based on the performance of all four models, it appears that model 3 is the best forecasting model. Model 3 has significantly low MAPE values for both the training and test sets which means that both sets have low averages between the forecasted values and the actual values. This is verified when looking at the plot of model 3. The forecasted model follows closely to the actual model suggesting that the trend was best caught by model 3 when compared to the others.